



Intro. to Data Science & Python for Finance

Learn & Talk Tech
Surrey

Meetup

Introduction

- ▶ Currently COO at blockchain startup, Blockmason
- ▶ Worked in tech for the past 10 years – last 3 years as a software developer
- ▶ Run part-time Python coding course at Surrey Digital Academy
- ▶ Learn & Talk Tech - Surrey Meetup group
- ▶ Graduate from UBC Engineering Physics



Harish Raisinghani



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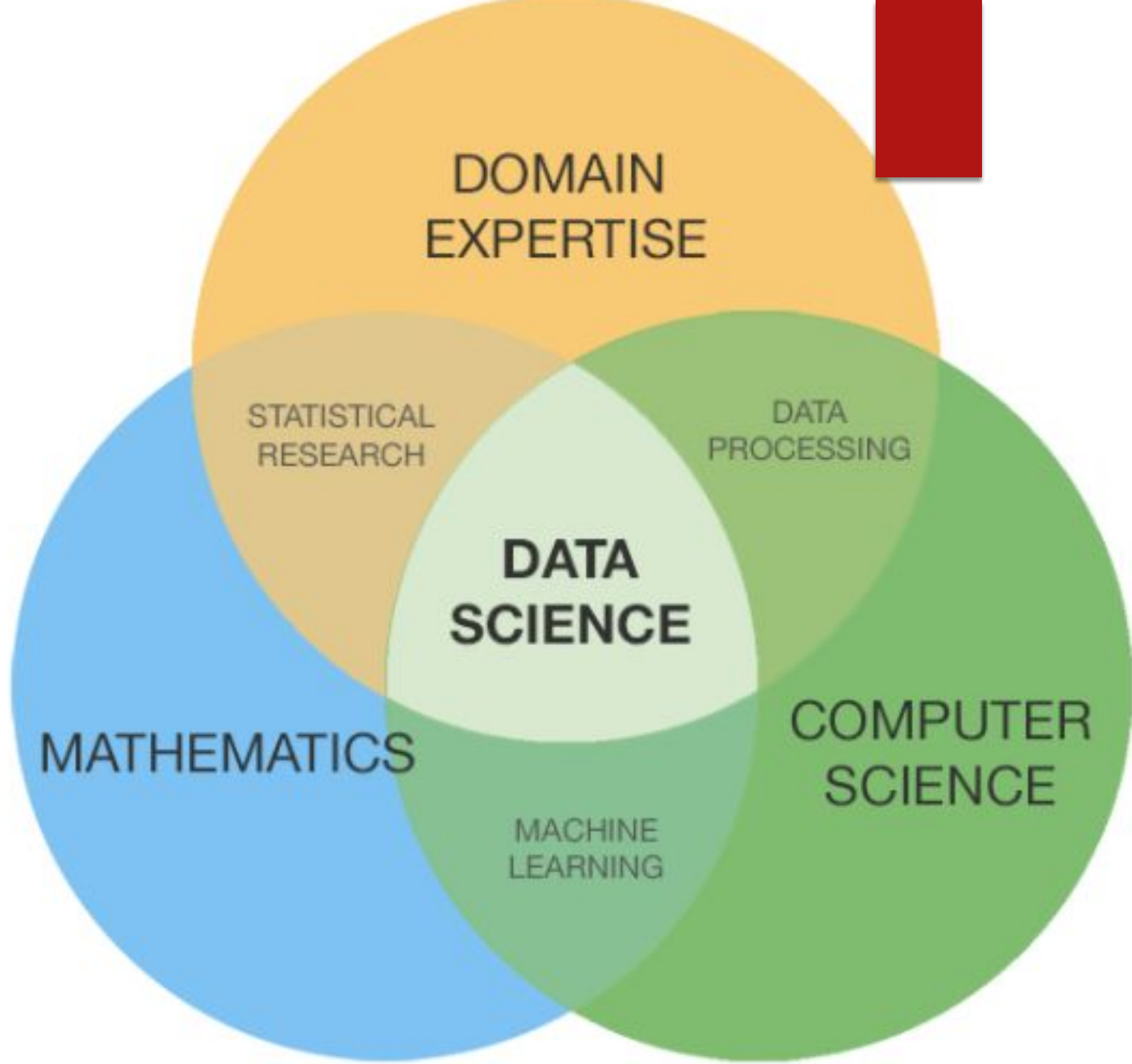
Workshop outline

- ▶ Define Data Science
- ▶ Quick intro to Python basics
 - ▶ Pandas data analysis package
 - ▶ Matplotlib plotting package
- ▶ Use of Investor Exchange to get stock ticker time series data
- ▶ Calculate & plot moving averages
- ▶ Calculate stock returns
- ▶ Create a math-based trading strategy

What is Data Science?

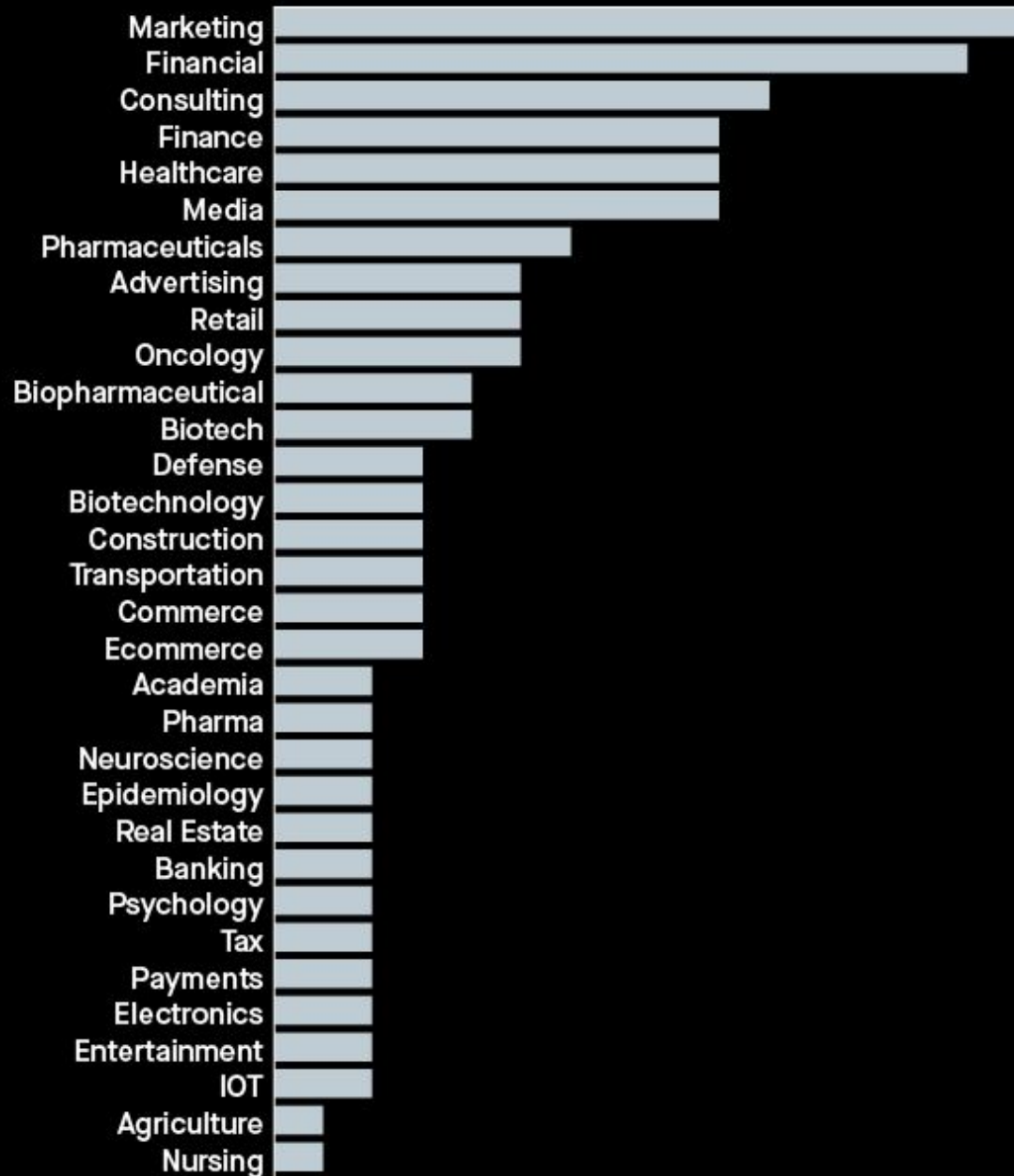
- ▶ Combines
 - ▶ Math & Statistics
 - ▶ Programming
 - ▶ Data sources
 - ▶ Domain expertise

Goal: Extract meaningful insights from the input data to drive business value



Careers in Data Science

An analysis of over 7000 job postings shows which industries are most in need of data scientists.



Why Python for Data Science?



Simple syntax & ease of use



Excellent tools for data wrangling



Many machine learning libraries



Collaborative and sharing tools like Jupyter notebooks



48 percent of data scientists with five or fewer years experience rated Python their preferred programming language.



Python for Finance Workshop

Online Data Science Courses

7 Best Data Science Courses & Certifications for 2019:

- ▶ [Data Science Specialization](#) — JHU (Coursera)
- ▶ [Introduction to Data Science](#) — Metis
- ▶ [Applied Data Science with Python Specialization](#) — UMich (Coursera)
- ▶ [Dataquest](#)
- ▶ [Statistics and Data Science MicroMasters](#) — MIT (edX)
- ▶ [CS109 Data Science](#) — Harvard
- ▶ [Python for Data Science and Machine Learning Bootcamp](#) — Udemy

<https://www.learndatasci.com/best-data-science-online-courses/>

Your Feedback Please!

<https://www.surveymonkey.com/r/WM6JXFJ>

Learn & Talk Tech Surrey

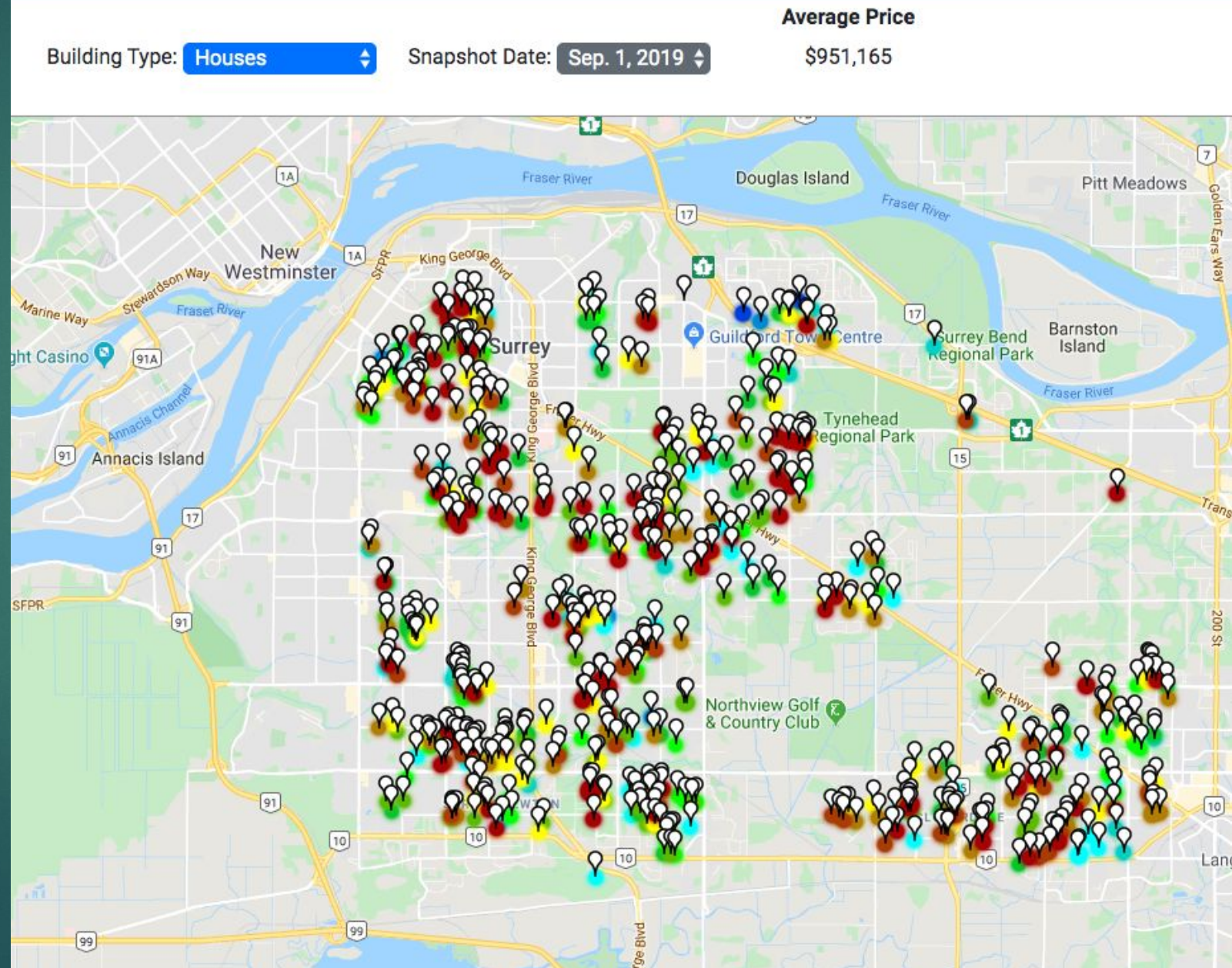
Meetup

Fundamentals of Coding - Python Part-time Course

- ▶ 6 weeks – starts Mar. 31
 - ▶ Tues. evening
 - ▶ Sat. morning
- ▶ Designed for:
 - ▶ First-time coders
 - ▶ Professional dev.
 - ▶ Evaluating careers
- ▶ In the Health & Tech Innovation Hub!

www.surreydigitalacademy.ca

Surrey Home Listing Heatmap





Thanks for attending!

NEXT CITY CENTRE WORKSHOP - WORDPRESS FOR BEGINNERS

FEBRUARY 20 – 6:30PM